

2-16-1973

The Amplifier - v. 18, no. 6

Associated Students of the Montana College of Mineral Science and Technology

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Stuco Plugs Away

The Executive Committee of the ASMT at their meeting held 17 January 1973 requested the Judicial Council to interpret a section of the ASMT Constitution. The Justices are to determine whether or not the Executive Committee has the inherent right to control all student funds including those earmarked for either Magma or FM. The Judicial Council meeting will be called shortly after the beginning of the second semester.

Joris Brinkerhof was appointed as the student representative to the committee designing programs for the time donated on channels 8 and 13.

Russell Darr was appointed as the student delegate to the Bookstore Advisory Board.

The Executive Committee extends its thanks to KXLF Radio, to the Mining Department, and to the Petroleum Department for making it possible to hear the remainder of Tech's basketball games over the radio. The Mining and Petroleum departments, along with the Minerals Industry Education Foundation and KXLF have donated both time and money to allow these broadcasts.

The Handball Club received an appropriation of \$50.00 for a tip to the Western Handball Conference held in Missoula. Competition was between players in ten different states.

The Executive Committee requested Dr. DeMoney to send letters out to the parents of students attending Tech informing them of Tech's budgetary needs.

At the 7 February 1973 meeting of the Executive Committee, it

was decided to sponsor a "Picture Day" in order to convince more students to have their pictures taken for the Magma.

Magma staff changes were announced. Gary Rowe is the editor, Cayle Lynch is assistant editor, and Rand Rafish is business manager. Mary Ann Carling, who was to have been the editor of the Commemorative Edition, has resigned her position.

A proposed amendment to the KMSM-FM constitution was voted down. The amendment would have prohibited faculty and staff from holding positions on the Executive Board with the exception of the Faculty Advisor.

The Executive Committee suggested that KMSM incorporate this statement into their bylaws rather than amend their constitution. A motion to this effect was made, seconded and carried.

A report on the Math and Science Teachers meeting held 7 February on campus was made. Thirty-two teachers represented eleven high schools this meeting which lasted from 2 until 7 p.m. The program included several speakers and a tour of each of the departments on campus. The meeting was organized by the Recruiting Task Force.

Several students interested in participating in track asked for funding to enable them to participate in various track meets throughout the state. Action was postponed until the number of meets and the number of participants is known.

The next meeting is scheduled for 21 February 1973, at 7:30 p.m., in SUB 202.

Thank you mysterious Santa Claus! The bag of new toys put in the Spur Room was given to the children of the Soroptomist Home. Love and happiness from the children and Spurettes!! Linda Ross-miller, Editor Spurettes

New Scholarship Awarded

Montana Tech is the recipient of a new scholarship established in memory of Gary David Alexander, Class of 1959, and his mother, Mrs. John W. (Ruth) Alexander.

Gary as a degree candidate in Metallurgical Engineering, scheduled for graduation June 8, 1959, when he was killed in a mountain climbing accident May 17, 1959. He was awarded the degree of Bachelor of Science, Metallurgical Engineering posthumously with the class of June 8, 1959.

John W., Mount Vernon, Wa., and John A. Alexander, Butte, father and son have made available the \$600 scholarship which will be awarded for the fall semester, 1973. Based on performance and character, it will be granted on a one year basis and can be renewed, depending upon the maintenance of good academic standing.

Originally, the scholarship will be available only to a male graduate of any high school in Skagit County, Washington, with preference given to a graduate of Mount Vernon High School, Mount Vernon, Wa., from which both Gary and his brother, John graduated.

Applications for this scholarship must be received by the Scholarship Committee at Montana Tech no later than March 1, 1973.

KMSM-FM is in Gear

KMSM-FM are the official call letters of the Montana Tech FM Radio station. Notification from the Federal Communications Commission was received on 22 January 1973 stating that the construction permit received earlier was modified to include the call letters KMSM-FM.

In the fall of 1970, the first steps were taken toward the creation of an educational FM station on campus with the organization of the FM-Radio Feasibility Study Committee.

During the station's infancy, the Feasibility Study Committee was under the chairmanship of Gordon Crawford, now a graduate of Montana Tech. Faculty advisor at this time was Dr. M. J. Doman, former assistant professor of physics at Montana Tech. Approximately nine other students were actively involved with the study which included surveys of student interest in the project.

The committee investigated the cost of constructing an educational station and evaluated the factors involved in setting up such a station, including the location of the studio, transmitter, and antenna.

Upon the presentation of the FM-Radio Feasibility Study Committee report to the Executive Committee of the Associated Students of Montana Tech, the Committee was dissolved.

A new committee, the FM-Radio Committee, was formed to begin the process that would take the FM station from infancy to adolescence. Under this committee, a yearly fee of \$5.00 per student per year was approved by the students, administration of the college and the

board of regents, to fund the station.

In May of 1972, the FM-Radio Committee completed its duties which included writing a station constitution, when its appointed the first Executive Board for the station.

The Executive Board of the FM Radio Facility, as it was known until it received the call letters KMSM-FM, is the main governing board of the station, determining all policy for the facility. The Executive Board submitted an application for permission to construct a 10-watt educational, non-commercial FM station to be located on the Montana Tech campus. Permission to construct was received on 21 November 1972.

Call letters were the next item to be applied for in December of 1972. KMSM-FM were selected by the FCC to be the official name of the station.

Presently, KMSM-FM is in the process of completing construction. All that remains to be done are minor adjustments in the main studio, setting up the transmitter and antenna, and conducting engineering tests.

After the completion of engineering tests, application to begin programming tests will be made. When this permission is granted, KMSM-FM will go on the air!

The last time this semester to add a course is 5:00 p.m. today, February 16, 1973. NO classes may be added after this time.

This also is the closing date and time for this semester's registration.

The AMPLIFIER

Montana College of Mineral Science and Technology

BUTTE, MONTANA

Friday, February 16, 1973

Vol. 18, No. 6

What the World Needs Now is Engineers

The "Green Pepper" Haunts the Library

A painting, "Green Pepper" by Evelyn Grinde is on display at the rear of the reading room in the Library through the efforts of Mrs. Irene Muir and the Montana Institute of Arts.

The painting, done in bright green colors, is Mrs. Grinde's second display at the Tech Library. Mrs. Grinde is quickly gaining recognition as an artist.

Mrs. Grinde has a son and a daughter who have attended Tech recently.

Summer Courses Need Direction

Continuing effort to determine summer session course needs at Montana Tech will be made with the aid of Model Cities Outreach Workers during February.

Workers will canvass 1,000 residents, providing a sampling of community interest in potential Tech offerings. Survey forms will also be placed at various businesses for the public to fill out at will. Survey forms must be returned to Montana Tech by March 1. The public needs only to fold it over, staple it and drop it in the mail box. Postage is paid by Tech.

Teachers in School District No. 1 have already been contacted, and the results of this canvass are presently being tabulated.

For further information, contact Prof. Elmer Gless, Chairman, Division of Continuing Education and Extension, Montana Tech.

At least 48,000 new engineering graduates will be needed each year during the rest of this decade, says a recent article in the Wall Street Journal by reporter William S. Hieronymus, Jr.

He points out that in numerous engineering fields an actual shortage is developing, according to personnel men, labor-market analysts and educators. And this gap is expected to grow. The basic reason for the shortage, is that engineering graduates aren't being produced rapidly enough to keep pace with the long-run growth of the economy. This statement is echoed by Montana Tech Placement Director Gustav Stolz, Jr.

Hieronymus cites four specific factors in the trend toward too few engineers. First, a new demand for engineers has been created by growing national efforts to increase productivity and to deal with energy demands, pollution problems and industrial health and safety, programs in which Montana Tech is specializing.

The second factor mentioned by Hieronymus is the need for engineering specialties so new that few persons are trained in these areas.

Third, notes the Journal reporter, is the lack of mobility by many engineers. By this, he means that some engineers have such strong geographical ties they refuse to move to a locality where they are needed, or they are trained or experienced in such a narrow specialty that they find it difficult to move to another area of engineering.

And fourth, he says, in recent months the country's economy has turned upward, encouraging companies to rebuild engineering staffs that had been cut during the 1969-70 recession.

A declining engineering enrollment throughout the country, in general, is also contributing to the shortage, reports Hieronymus. Although 48,000 engineering graduates will be demanded annually, according to U. S. Labor Department figures, only about 43,000 bachelor's degrees were earned in engineering in 1971-72. This total was compiled by the Engineers Joint Council, a New York based federation of engineers, which predicts that by 1975 dropping enrollments will result in only about 32,000 engineering graduates.

Enrollment at Montana Tech, basically an engineering institution, is down this year, following the nation-wide trend, and Placement Director Gustav Stolz, Jr is campaigning vigorously to acquaint high school students with engineering careers. For instance, he has been sending information of the sort contained in the Wall Street Journal story to mathematics and science teachers and high school counselors throughout the State to encourage students to choose a career in engineering fields.

As Stolz stresses and as the Journal reports, the engineering shortage will be acute by the time students who enroll now are graduated. The demand for their abilities will be great.

"Engineering has fallen out of grace," observes Otes Bennett, Jr., president of North American Coal Corp., a big producer of fuel for midwestern utilities. His remark was included in the Journal story. According to Ray E. Bolz, dean of the engineering school at Case Western Reserve University in Cleveland, the decline in undergraduate engineering enrollment is "primarily a backlash of the disillusionment of young people with technology,

a feeling that technology has gone too far."

Poor career guidance, the problem Tech's placement director is striving to alleviate, is given as another factor in enrollment decline in the engineering fields by M. B. Scott, associate dean of Purdue University's Schools of Engineering. Such guidance, he says, has failed to correct the impression that engineering jobs are hard to find.

Although Tech's Stolz points out that the extraordinary demand for engineering graduates experienced a few years ago during the space race probably will not be felt at Tech for a few years, he emphasizes that there is still a demand for Tech grads. Figures for Tech's June 1972 graduates indicate this is so, and the situation is predicted to be the same for engineers entering the job market this spring.

Of the 38 students who were graduated in June with bachelor's degrees in engineering, 34 have been employed by industry, three have gone on to graduate school and one is in the military service. These graduates accepted average starting salaries of \$889 a month. The maximum accepted was \$1000 and minimum \$600. Now the indications are that starting salary will be even higher for the June 1973 engineering graduates. Although reluctant to leave Montana, many 1972 Tech graduates found it necessary to relocate in order to pursue their engineering specialty.

Mining is one area where engineers are becoming hard to come by, reports Hieronymus. Stolz confirms this statement and uses coal as an example of an area where the demand already is heavy. Enforcement of new federal mine-safety laws,

states Hieronymus, "means tapping an already short supply of mining engineers."

"We can use as many (mining engineers) as we can get," asserts Bennett of North American Coal, and he added that the federal government is competing for the same people.

The Butte Jaycees, at a board of directors meeting held 7 February 1973, accepted KMSM-FM as a project of assistance, according to Don Davis, president of the Butte Chapter of Jaycees.

This assistance will include a statewide plea for equipment and materials to be made through the Montana Jaycees publication, Trail Blazer.

COLLEGE STUDENT'S POETRY ANTHOLOGY

The National Poetry Press announces its SPRING COMPETITION

The closing date for submission of manuscripts by College Students is

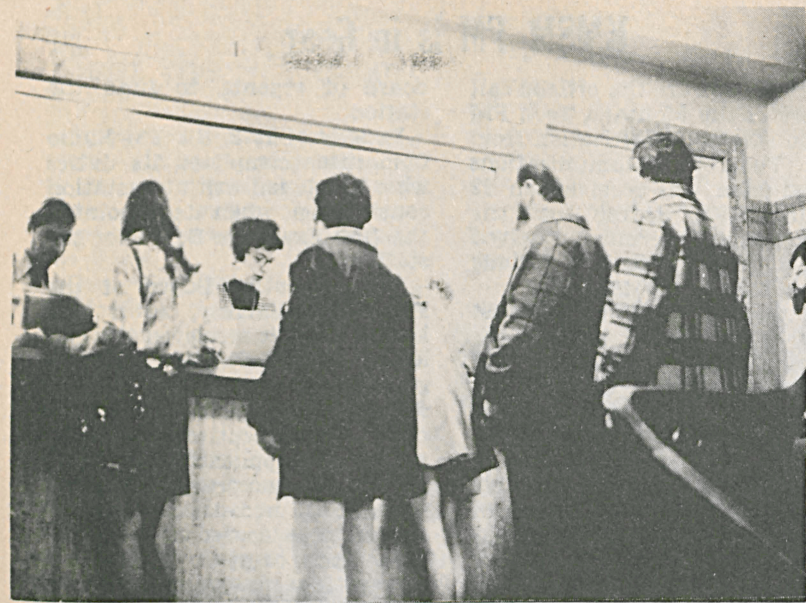
APRIL 10

ANY STUDENT attending either junior or senior college is eligible to submit his verse. There is no limitation as to form or theme. Shorter works are preferred by the Board of Judges, because of space limitations.

Each poem must be TYPED or PRINTED on a separate sheet, and must bear the NAME and HOME ADDRESS of the student, and the COLLEGE ADDRESS as well.

MANUSCRIPTS should be sent to the OFFICE OF THE PRESS,

NATIONAL POETRY PRESS
3210 Selby Avenue
Los Angeles, California 90034



Registration money line.

Sub-Hub of Campus

The Student Union Building on the Montana Tech campus is the center of activity throughout the day. Students are by far the most frequent occupants of the building, although the faculty and staff use its facilities also.

Beginning at 7:30 a.m. the students living in the dorm are among the first to enter the SUB each day. Approximately ninety-five students live in the dorm and use the food service daily. Later, more students and some faculty start coming into the SUB. At 8:00 the cash line, where all can purchase refreshments, and the bookstore open.

One of the main attractions of the eStudent Union Building is the recently opened game room which is available from 8:30 a.m. to 5:00 p.m. and from 6:00 until 9:30 p.m. daily through Friday and from 12 noon until 9:30 p.m. on Saturdays. Students gather here either to play a variety of games ranging from pool and ping pong to air hockey or to watch television.

The SUB lounge area is open all day, students congregate here to relax after classes, to meet with old friends and to make new ones.

Several student offices are located in the SUB including the student government, the yearbook, the newspaper, and the radio station.

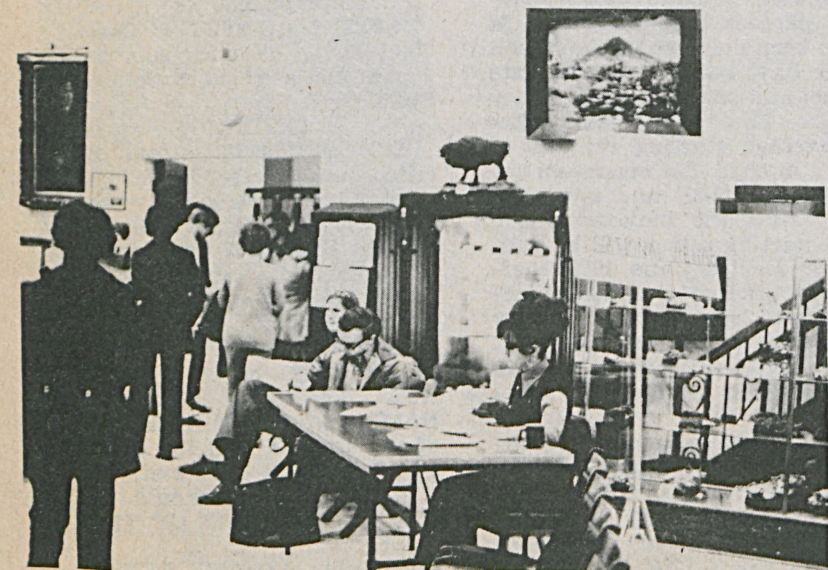
The student offices are the center of many activities. The Associated Students of Montana Tech offices house rooms for the president, vice-president, secretary, justices, and delegates.

Magma, the yearbook, and the Amplifier, the student newspaper, share the same office. Facilities there include a darkroom.

KMSM-FM, the campus radio station, has its main broadcast studio in the SUB. Station staff can be found working here most of the day in preparation for the initial broadcast. People are encouraged to visit the FM station and see the progress being made daily.

Throughout the day, conference rooms are available for meetings of students, faculty and staff, and other clubs and organizations.

The Student Union Building is the focal point for nearly all extra-curricular activity on the campus.



Registration Day.

Summer Job Openings

FIELD ASSISTANT

Montana Bureau of Mines and Geology

Temporary position—Summer 73
Job Description—Approximately two thirds of the time will be spent in the field assisting with geologic mapping in western Montana. The remaining time will be spent doing a variety of jobs at the facilities of the Montana Bureau of Mines and Geology in Butte.

Requirements—

1. Field experience consisting of a field geology course or its equivalent.
2. Completion of at least the Junior year.
3. The ability and desire to solve geologic problems.

Procedure — Obtain application form from the Montana Bureau of Mines and Geology. After completing this form return to Dr. Berg, Room 305, Main Hall. Applications must be received by March 1, 1973.

ASSISTANT CURATOR

Mineral Museum Montana Bureau of Mines and Geology

Temporary position—Summer 73
Job Description—The person employed will spend the time cataloging specimens in storage and answering the questions of visitors to the Mineral Museum. Although he or she will work only 5 days a week, the work week must include the weekend.

Requirements—

1. Must be thoroughly reliable.
2. Must enjoy talking to Mineral Museum visitors and be able to answer their questions.

Procedure — Obtain application form from the Montana Bureau of Mines and Geology office. After completing this form return it to Dr. Berg, Room 305, Main Hall. Applications must be received by March 1, 1973.

LAB ASSISTANT

Part-time

Montana Bureau of Mines and Geology

Job Description — Dissolving samples for geochemical analysis, assisting in other assay procedures.

Requirements — Sophomore standing or above, must have had freshman chemistry courses (including labs).

Procedure — Obtain application form from the Montana Bureau of Mines and Geology office, Room 203-B, Main Hall. After completing this form return it to Mr. Bob Franks, Bureau Lab, Room 3, Main Hall.

New Engineering Course "Water Quality"

Water Quality Engineering I, a 3-credit hour course, is offered at Montana Tech Tuesday and Thursday evenings, 7:30-9:00 p.m., in the Engineering Bldg., Room 208 E.

Instructor for the course is Maxwell Botz of the Montana Dept. of Environmental Science.

The course covers significant components and their interaction in the hydrologic cycle. Fundamental physical and chemical characteristics of pure and impure waters will be examined. Also stream classification and water quality standards will be discussed, and an appraisal made of major sources of waste water.

Further information may be obtained by contacting Prof. Floyd Bossard, Chairman, Environmental Engineering, Montana Tech.

PART-TIME EMPLOYMENT NOTICE

Part-time as well as permanent positions may be obtained through the Placement Office. Men and women students interested in part-time employment can register their interest in the Placement Office, Eng. 102, and complete a part-time employment card.



The steps provide a writing area to fill out computer cards.



Spurs provide assistance for Registration Day.

My Neighbors



"Well . . . Romeo and Juliet didn't have any snap either."



"Then who's financing this venture, Noah?"

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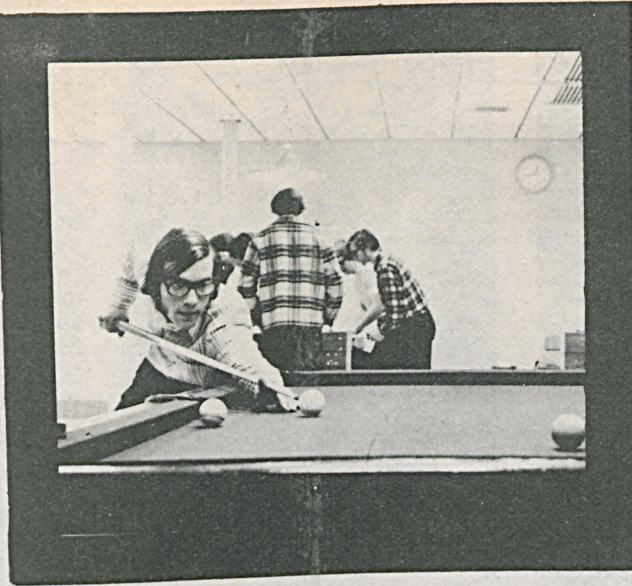
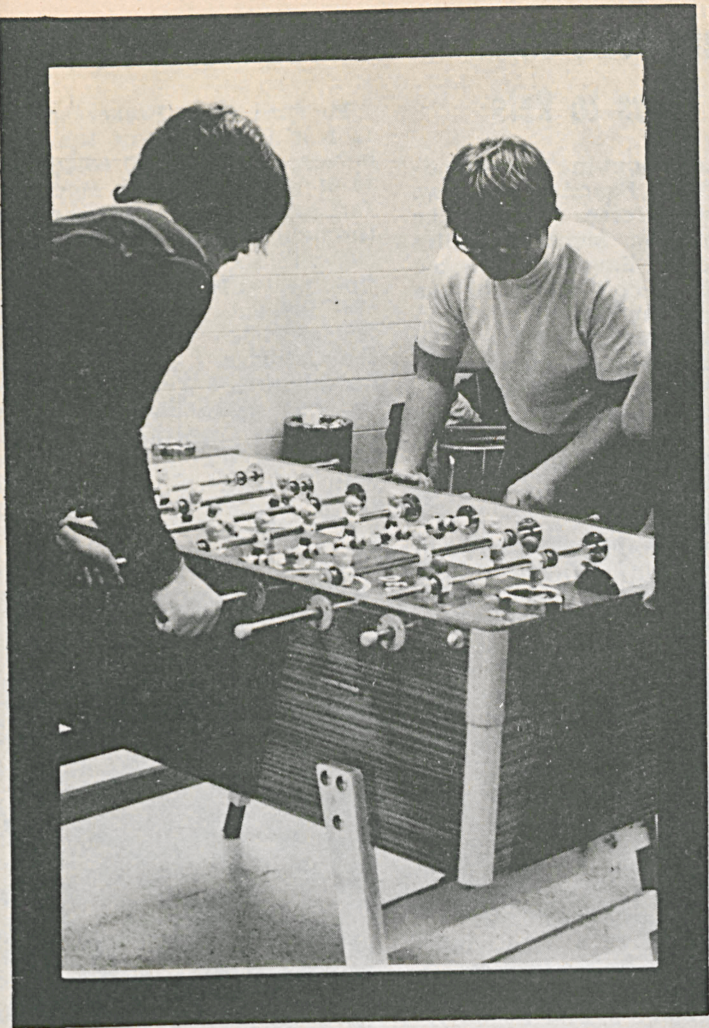
SPORTS EDITOR—KRIS WILLIAMS

ADVISOR—ROBERT T. TAYLOR

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SUBOLOGY

For all students majoring in SUBology, a new lab has recently been opened. The game room is located in the basement of the Student Union Building.

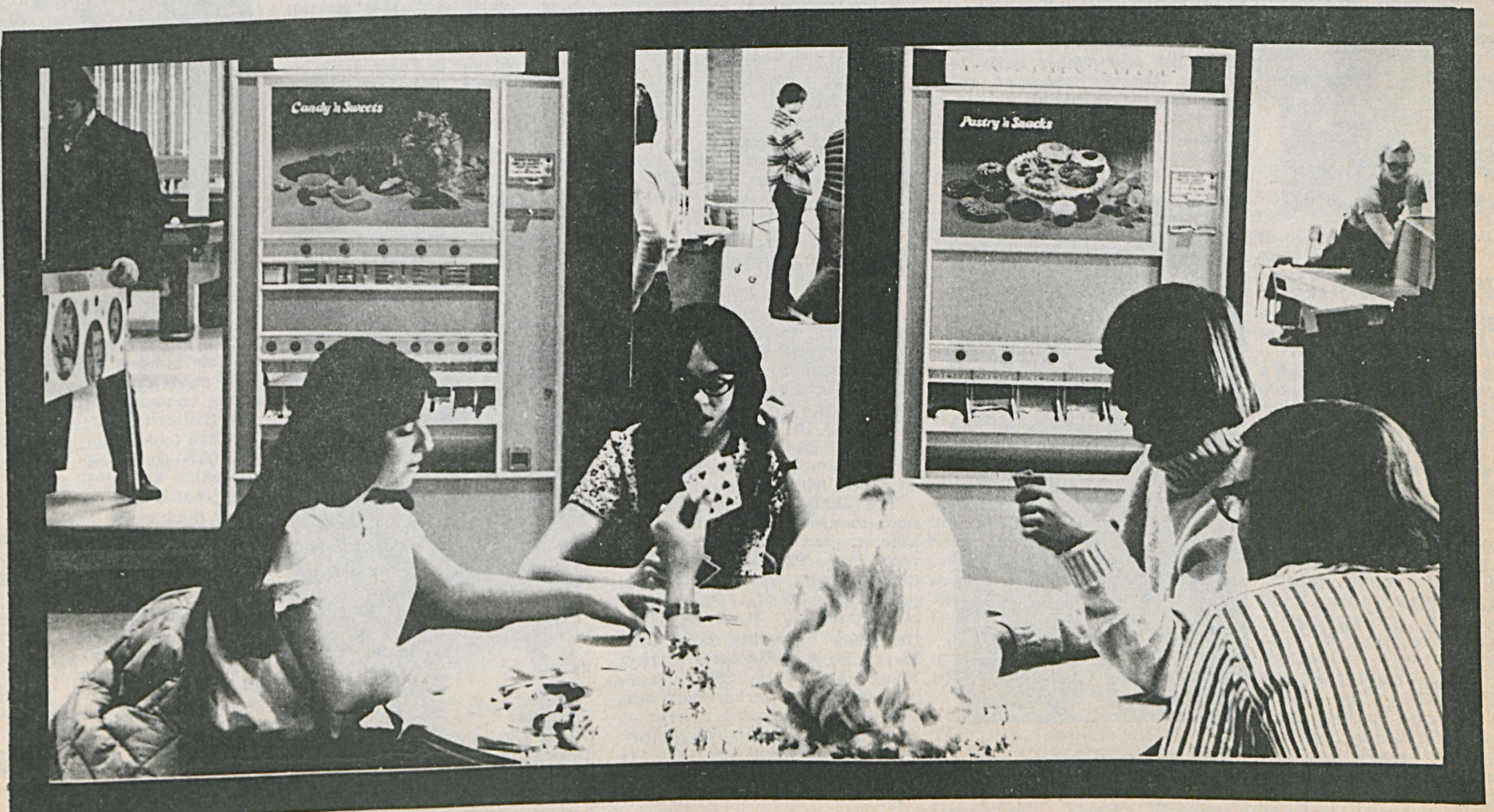
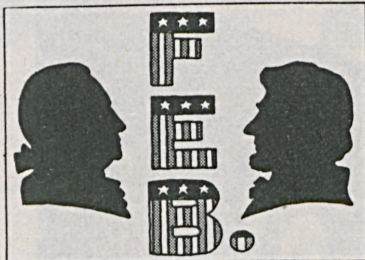
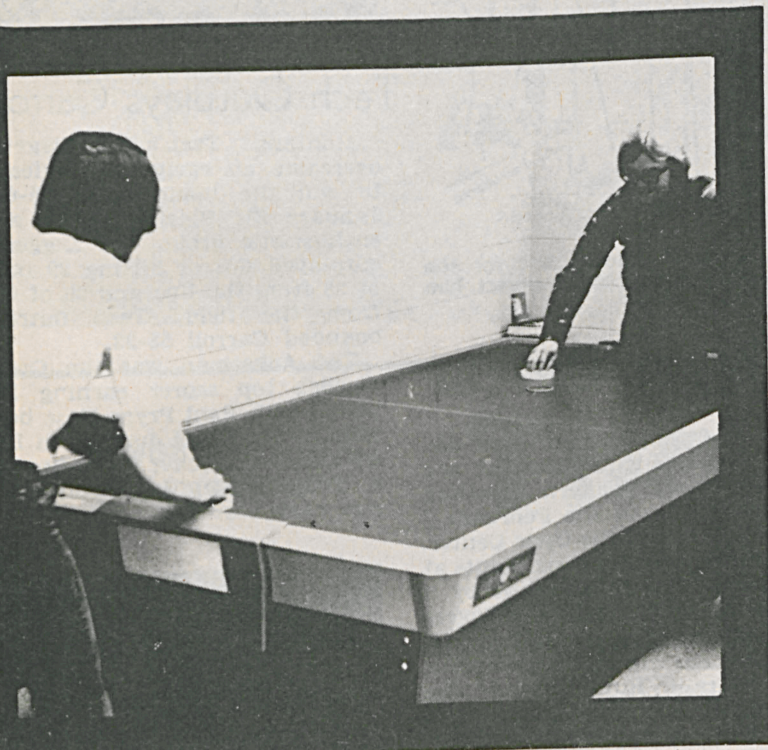
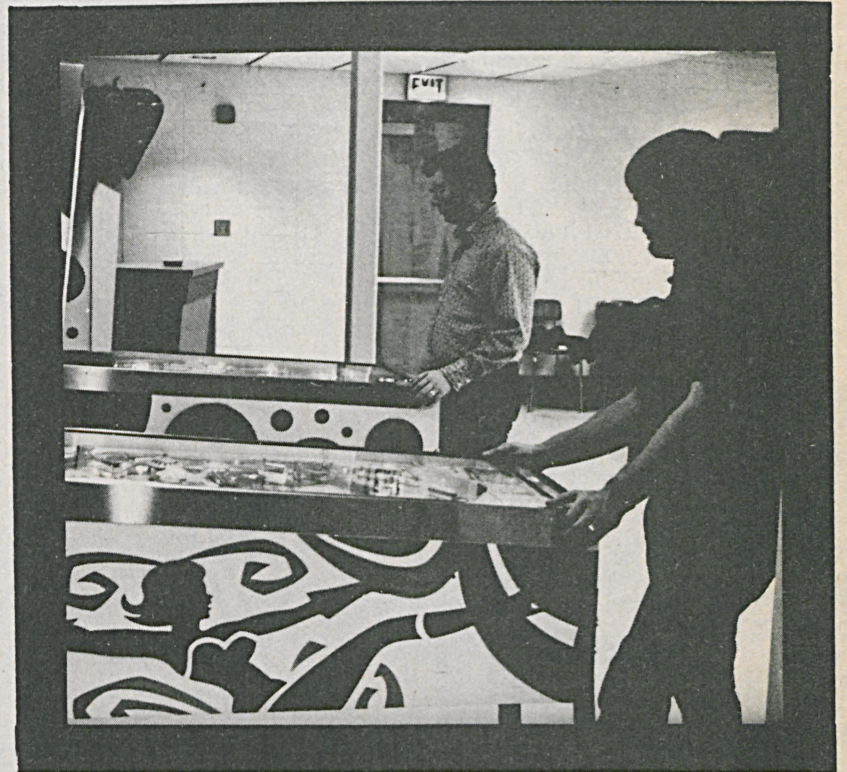
Contained within this new room are pool and ping pong tables, air hockey and fussball games, and pin ball machines. There are even such delicate instruments as candy and cigarette machines.

Designed for the hard working student in need of some relaxation, the game room also has many tables and chairs and a color television.

This room is open on Monday thru Friday from 9:00-5:00 and from 6:00-9:30. On Saturdays the hours are from 12:00-9:30.

Cheri Norine, Ginger Hohn, im Smitham or Anil "Smokey Joe" Mehita can be found standing behind the game room desk. These people perform such duties as distributing cue sticks, ping pong paddles, and change.

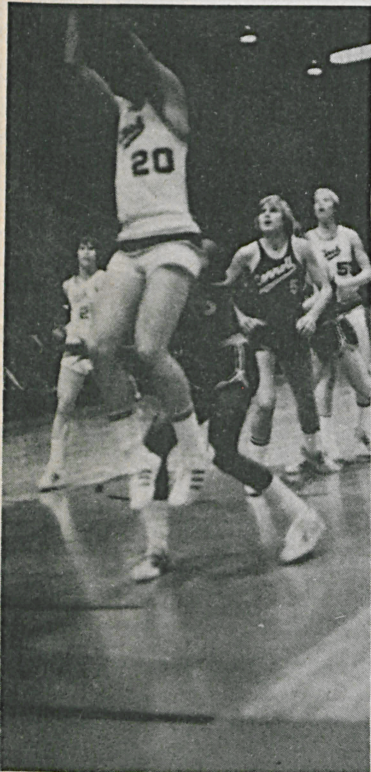
This lab is not closed to people with a major other than SUBology. Everyone is invited to sit in on or participate in any session of the new laboratory.



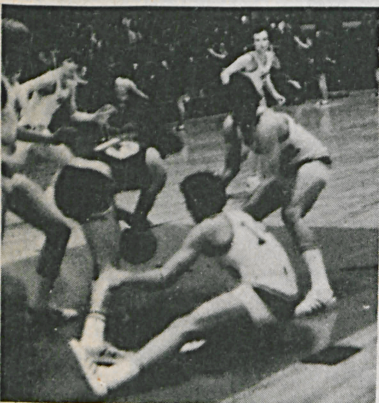
Tech is Proud

Montana Tech finally has a basketball team it can be proud of, and apparently part of the student body thinks so too. Attendance at the games has noticeably improved, although not to such a degree as to make history in the annals of Montana Tech athletics. The team, coached by Terry Battenberg and his assistant Jeff Kester, is undeniably the best in the school's history and recognized as a leading team in the Frontier Conference. The players offer a new and exciting brand of basketball combining skill, guts and a drive to win. Loyal fans who support the team are impressed by the Orediggers and their accomplishments. But how long can a team remain stimulated by a rousing crowd of 300 from a school of nearly 700 and a community of 25,000? I have no doubt the team will continue to win perhaps because they have more pride in the school and confidence in their ability.

Tech has only two home games remaining, those against Rocky Mountain February 16 and 17. Why not attend the games and give the team a chance to approve themselves and be rewarded with the recognition they deserve?



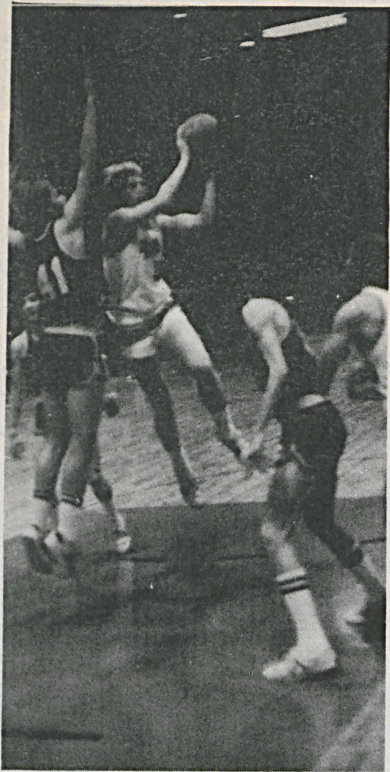
Tech vs. Carroll.



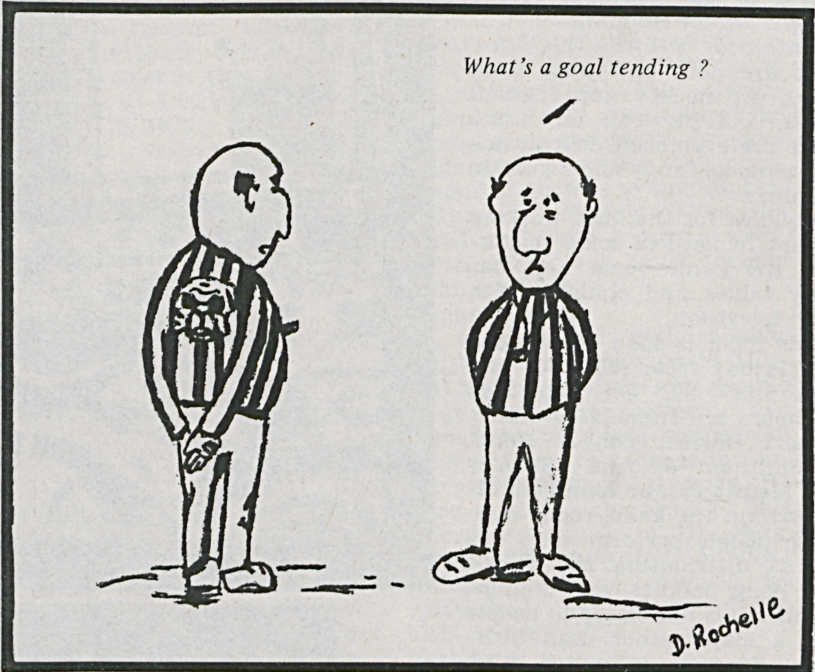
Handball Team Places 2nd

Montana Tech's Handball team placed second at the Western Divisional Intercollegiate Handball Tournament January 19, 21 at the University of Montana. Competing teams were from California, Idaho, Utah, Washington and Montana. Individual and team scores for Tech were:

Rick McLaughlin				
A singles	2	1	5	3
Terry McLaughlin				
B singles	3	1	4	3
Leo Doran				
B singles	1	1		
Lee Gribb, Greg				
Doubles	2	1	4	Cons
Sadoski,				
Ted Duaine,				
Tom Walsh				
Doubles	1	2	2	
TEAM	9	6	16	2



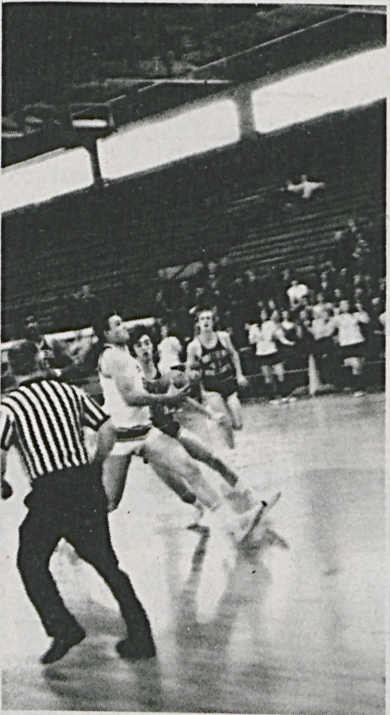
Tech vs. Western.



Tech Stomps Northern

Despite sickness and injuries, the Montana Tech Orediggers stomped Northern Montana 97-67 January 20 in the Civic Center. The Lights were able to take an early lead by playing an unexpected zone defense, but the Diggers made a quick recovery and led 43-34 at half-time.

Tech dominated the remainder of the game, showing the few hundred spectators impressive blitzing offense and scoring ability shooting 59% from the field and 88% from the line. The win gave Tech an overall record of 13-4. Scoring for Tech were: Pryor 17, Ackerman 16, Stephens 15, Appel and Weber each 14, Foley 8, Kenczka 6, Myers 5, and Lyng 2.



Myers up for two.

Orediggers Win by Two

After a long, hard battle, Montana Tech's basketball team defeated the Carroll College Saints 78-76 during the last few seconds of a double over-time. The game was tied 76 all with five seconds remaining in the second over-time when guard Steve Stephen's 20 foot jumper connected giving Tech the winning two points.

The January 27 game was a neck-in-neck race, neither team able to gain more than a four point lead. The Orediggers were deadly from the charity line, pumping in 16 of 17 shots for a blistering 94%. Paul Appel led the Digger's scoring game with 26 points with Stephens scoring 18 and Becker 10. Others scorings for Tech were: Foley and Pryor 8 each, Spoon 4, Ackerman and Patrick 2 each. The victory boosted the Orediggers to a 4-2 in the league and 15-4 for the season.

Tech Beats Dillon - Loses to Refs

Western Montana's goaltending Godfrey Saunders and two hometown referees proved to be too much for Montana Tech's Orediggers. Saunders blocked many of Tech's shots to the amazement of Tech fans, Coach Battenberg and the team. The "impartial referees" were unable to distinguish between goaltending and blocked shots. Playing against such odds, the Orediggers were unable to overcome an early Western lead and dropped the game 80-68.

During the opening minutes of the game tempers flared on both teams. Montana Tech's Gary Becker proved to be a true Oredigger holding his own against much larger opponents. In other action Tech's Paul Appel sustained a cut over his right eye without the benefit of a called infraction of the rules by the gentlemen in stripes. One surprising aspect of the game was that the refs failed to call a single technical against Montana Tech's infamous "Technical Terry." They must have forgotten.

Scoring for Tech were: Appel 17, Becker 14, Weber 10, Myers 8, Pryor 6, Ackerman 4, Stephens 4, Kline 2, Foley 2, and Spoon 1.



"Yes, Coach, Stretch left for the basketball game, but I expect him home very soon."

Digger Defeat

Tech Orediggers suffered defeat for the third time at the hands of the Eastern Montana Yellowjackets in the February 8 game played in the Civic Center. The team was down six points at the final buzzer and lost by a score of 78-72. The Orediggers played one of their best games against Eastern but were unable to restrain Roy McPipe who scored eight unerring baskets in the final minutes of the game. The loss gave Tech a 5-4 conference record and 16-6 overall. Scoring for Tech were: Becker 13, Stephens 12, Pryor 11, Appel 10, Spoon 8, Foley 6, Weber and Myers 4, and Patrick 2.



Two Second Victory

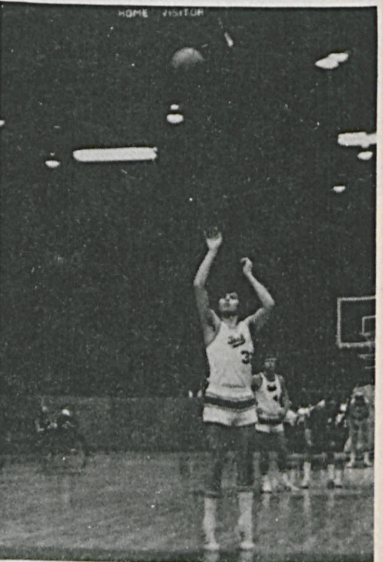
Forward Gary Becker sank a 12 foot jump shot at the final buzzer to give the Orediggers a 66-64 win over Rocky Mountain January 23. Tech held the lead throughout most of the game, but with six minutes left in the final period Rocky tied the score and pressed Tech to the final few seconds. This victory was the Oredigger's fourth straight, making their 5-2 conference record one game away from the lead. Nine Orediggers scored in the game: Stephens 15, Ackerman 14, Becker 12, Pryor 8, Weber 5, Foley 4, Myers 4, Appel 2 and Spoon 2.



Tech Outplays Carroll

Montana Tech's Orediggers overcame an early Carroll lead to win the home game 85-66 January 25. Playing before an enthusiastic group, the Diggers outplayed Carroll hitting 29 out of 33 from the line and 28 of 61 from the field. Tech outrebounded Carroll 53-32.

Ted Ackerman was the Oredigger's top scorer earning 20 points with Paul Pryor close behind at 18. Appel dumped in 15, Stephens 13, Becker 6 and Spoon 5. Foley, Kline, Myers and Patrick each scored 2.



Tech Drops Two

The Eastern Montana Yellowjackets handed Montana Tech its only conference defeats in a two game contest in Billings January 12 and 13. In the first game Eastern took an early lead which the Orediggers were not able to overcome and won 90-72. Four technical fouls were called on Tech during the game.

Tech improved in the second game beating the Jackets on the boards and at the line; but Eastern was able to shoot more from the field and again defeated the Diggers 66-54. One additional technical was called on the team.

Tech scoring, January 12 was: Becker 15, Appel 13, Spoon 11, Pryor 8, Foley 8, Stephens 8, Weber 3, Ackerman 2, Kline 2 and Patrick 2. In the January 13 game: Pryor 15, Appel 14, Becker 9, Myers 6, Patrick 4, Weber 4 and Spoon 2.